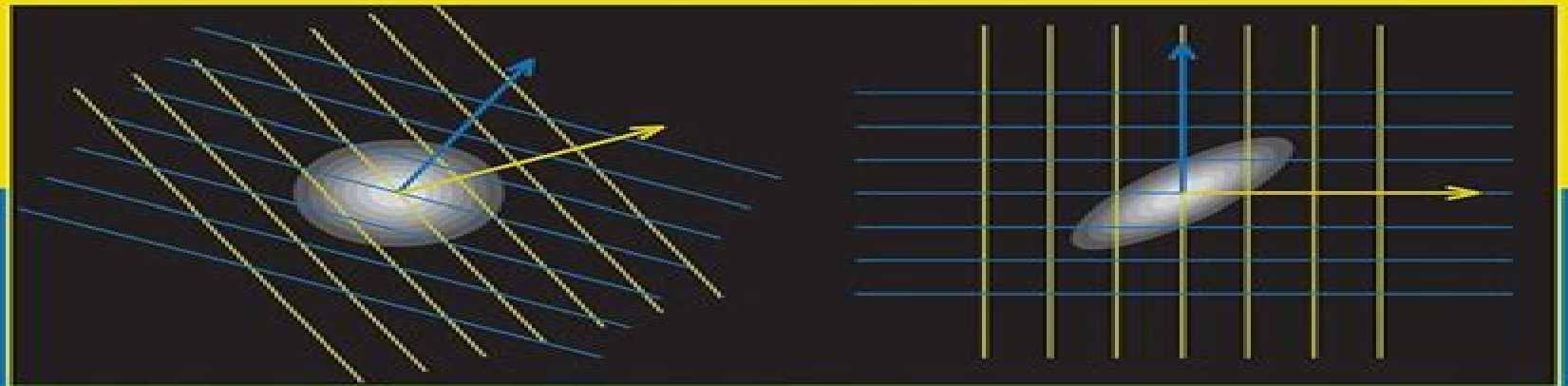


EVOLUTIONARY THEORY

Mathematical and Conceptual Foundations



Sean H. Rice

Mathematical Evolutionary Theory

R. Bürger



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Mathematical and statistical approaches to evolutionary theory are numerous The NATO Advanced Study Institute ASI held at the Universite de Montreal Montreal August 3-21 1987 was an opportunity to review most of the classical approaches and to study the more recent developments The participation of theoretical biologists and geneticists as well as applied mathematicians and statisticians made possible exchanges of ideas between students and scholars having different views on the subject These Proceedings contain the lecture notes of seven 7 of the eleven 11 series of lectures that were given ESS Evolutionarily Stable Strategy theory is considered from many perspectives from a game theoretic approach to understanding behavior and evolution W G S Hines and a systematic classification of properties and patterns of ESS s C Cannings to particular applications of the differential geometry of the Shahshahani metric E Akin Extensions of ESS theory to sexual populations and finite populations not to mention games between relatives are presented W G S Hines Special attention is given to the classical game called the War of Attrition but with n players and random rewards C Cannings The Shahshahani metric is also used to show the occurrence of cycling in the two locus two allele model E Akin Various inference problems in population genetics are addressed Procedures to detect and measure selection components and polymorphism in particular the Wahlund effect at one or several loci from mother offspring combinations in natural populations are discussed at length F B Christiansen *Mathematical Evolutionary Theory* Marcus W. Feldman, **The Role of Mathematics in Evolutionary Theory** Jun Otsuka, 2019-10-17 The central role of mathematical modeling in modern evolutionary theory has raised a concern as to why and how abstract formulae can say anything about empirical phenomena of evolution This Element introduces existing philosophical approaches to this problem and proposes a new account according to which evolutionary models are based on causal and not just mathematical assumptions The novel account features causal models both as the Humean uniform nature underlying evolutionary induction and as the organizing framework that integrates mathematical and empirical assumptions into a cohesive network of beliefs that functions together to achieve epistemic goals of evolutionary biology *Evolutionary Theory* Sean H. Rice, 2004 Evolutionary Theory is for graduate students researchers and advanced undergraduates who want an understanding of the mathematical and biological reasoning that underlies evolutionary theory The book covers all of the major theoretical approaches used to study the mechanics of evolution including classical one and two locus models diffusion theory coalescent theory quantitative genetics and game theory There are also chapters on theoretical approaches to the evolution of development and on multilevel selection theory Each subject is illustrated by focusing on those results that have the greatest power to influence the way that we think about how evolution works These major results are developed in detail with many accompanying illustrations showing exactly how they

are derived and how the mathematics relates to the biological insights that they yield In this way the reader learns something of the actual machinery of different branches of theory while gaining a deeper understanding of the evolutionary process Roughly half of the book focuses on gene based models the other half being concerned with general phenotype based theory Throughout emphasis is placed on the fundamental relationships between the different branches of theory illustrating how all of these branches are united by a few basic universal principles The only mathematical background assumed is basic calculus More advanced mathematical methods are explained with the help of an extensive appendix when they are needed

Mathematical Models of Social Evolution Richard McElreath, Robert Boyd, 2008-09-15 Over the last several decades mathematical models have become central to the study of social evolution both in biology and the social sciences But students in these disciplines often seriously lack the tools to understand them A primer on behavioral modeling that includes both mathematics and evolutionary theory Mathematical Models of Social Evolution aims to make the student and professional researcher in biology and the social sciences fully conversant in the language of the field Teaching biological concepts from which models can be developed Richard McElreath and Robert Boyd introduce readers to many of the typical mathematical tools that are used to analyze evolutionary models and end each chapter with a set of problems that draw upon these techniques Mathematical Models of Social Evolution equips behaviorists and evolutionary biologists with the mathematical knowledge to truly understand the models on which their research depends Ultimately McElreath and Boyd's goal is to impart the fundamental concepts that underlie modern biological understandings of the evolution of behavior so that readers will be able to more fully appreciate journal articles and scientific literature and start building models of their own

Evolutionstheorie und Dynamische Systeme Josef Hofbauer, Karl Sigmund, 1988 This textbook is an introduction to dynamical systems and its applications to evolutionary game theory mathematical ecology and population genetics This first English edition is a translation from the authors successful German edition which has already made an enormous impact on the teaching and study of mathematical biology The book's main theme is to discuss the solution of differential equations that arise from examples in evolutionary biology Topics covered include the Hardy Weinberg law the Lotka Volterra equations for ecological models genetic evolution aspects of sociobiology and mutation and recombination There are numerous examples and exercises throughout and the reader is led up to some of the most recent developments in the field Thus the book will make an ideal introduction to the subject for graduate students in mathematics and biology coming to the subject for the first time Research workers in evolutionary theory will also find much of interest here in the application of powerful mathematical techniques to the subject

The Mathematical Theory of Selection, Recombination, and Mutation R. Bürger, 2000-11-02 It is close to being a masterpiece could well be the classic presentation of the area Warren J Ewens University of Pennsylvania USA Population genetics is concerned with the study of the genetic ecological and evolutionary factors that influence and change the genetic composition of populations The emphasis here is on models that have a direct

bearing on evolutionary quantitative genetics Applications concerning the maintenance of genetic variation in quantitative traits and their dynamics under selection are treated in detail Provides a unified self contained and in depth study of the theory of multilocus systems Introduces the basic population genetic models Explores the dynamical and equilibrium properties of the distribution of quantitative traits under selection Summarizes important results from more demanding sections in a comprehensible way Employs a clear and logical presentation style Following an introduction to elementary population genetics and discussion of the general theory of selection at two or more loci the author considers a number of mutation selection models and derives the dynamical equations for polygenic traits under general selective regimes The final chapters are concerned with the maintenance of quantitative genetic variation the response to directional selection the evolutionary role of deleterious mutations and other topics Graduate students and researchers in population genetics evolutionary theory and biomathematics will benefit from the in depth coverage This text will make an excellent reference volume for the fields of quantitative genetics population and theoretical biology

Mathematical Population Genetics And Evolution Of Bacterial Cooperation Volker Hosel, Christina Kuttler, Johannes Muller, 2020-03-13 Social life of bacteria is in the focus of recent research Bacteria are simple enough to be accessible by science but still complex enough to show cooperation division of labor bet hedging cross talk and synchronized activities and a rich variety of social traits A central question of evolutionary theory is the explanation why this social life did develop and why these systems are evolutionary stable This book introduces the reader into the theory of evolution covering classical models and as well as recent developments The theory developed is used to represent the up to date understanding of social bacteria This book will be useful for students and lecturers interested in mathematical evolutionary theory as well as for researchers as a reference

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